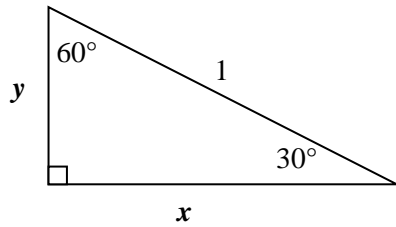


Precalculus
Special Right Triangle Worksheet

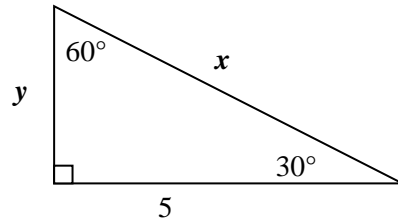
Name _____

Find x and y in each triangle. Show work when necessary.

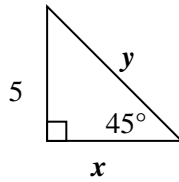
1.



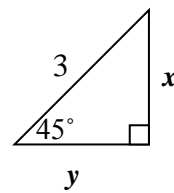
2.



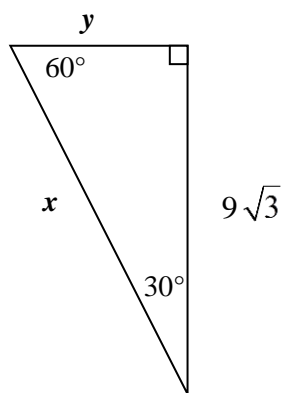
3.



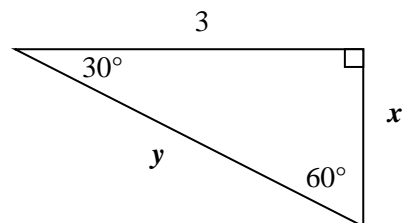
4.



5.



6.



Use a special right triangle to find the value of θ . DRAW A TRIANGLE FOR EACH PROBLEM!

7. $\sin \theta = \frac{1}{2}$

8. $\tan \theta = 1$

9. $\csc \theta = \sqrt{2}$

10. $\cot \theta = \sqrt{3}$

11. $\cos \theta = \frac{1}{2}$

12. $\sec \theta = 2$

Use a special right triangle to evaluate the trig function. Give exact answers (no decimals!)

Draw and label a 30-60-90 triangle:

Draw and label a 45-45-90 triangle:

13. $\sin 60^\circ$

14. $\cot 30^\circ$

15. $\sec 45^\circ$

16. $\tan 30^\circ$

17. $\csc 45^\circ$

18. $\cos 60^\circ$